

Report No. 13201-0015024-13
Lab number SPL-2013-10-360
Report Date October 23, 2013
Customers Refineria Panama

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ANALYSIS CERTIFICATE

Object Shore Tank D 2103
Product Low Sulfur Diesel
Location Refpan - Bahia Las Minas
Drawn by Core Laboratories Panama - Saybolt
Date of sampling October 22, 2013 at 02:50 hrs
Date Received October 22, 2013 at 08:00 hrs
Marked Shore Tank D 2103 - Ex MT Ex -Yasa Marmaris - Composite Sample

LOTE: 1013LDO057
VOLUMEN TOTAL: 114,910.83 BBLs.
VOLUMEN DISPONIBLE: 99,910.83 BBLs.

TEST	UNITS	METHOD	RESULT	SPECS
API Gravity @ 60°F	°API	ASTM D 4052	34.4	32.0 - min
Appearance		ASTM D 4176	B & C	B & C
ASTM Color		ASTM D 1500	< 1.0	2.5 - max
Water & Sediment	vol. %	ASTM D 2709	0	0.05 - max
Flash Point, PMCC	°F	ASTM D 93A	147	140 - min
Sulfur content	wt. %	ASTM D 4294	0.0274	0.05 - max
Ash Content	wt. %	ASTM D 482	< 0.001	0.01 - max
Conradson Carbon Residue, 10% Bottom	wt. %	ASTM D 189	0.021	0.30 - max
Corrosion Copper Strip, 3 Hrs @ 50 C		ASTM D 130	1a	2 - max
Cetane Index		ASTM D 976	46.8	45 - Min
Viscosity Kinematic @ 40°C	mm2/s (cSt)	ASTM D 445	2.916	1.9 - 4.1
Distillation	Deg. °F	ASTM D 86	---	---
10% Recovered			414.4	Report
50% Recovered			517.0	550 - max
90% Recovered			625.6	640 - max
End Point			655.3	Report
Residue			1.6	2.0 - max
Loss			1.5	2.0 - max
Lubricity Test @ 60°C (Wear Scar Diameter)	µm	ASTM D 6079	340	520 - max

Contenido de Azufre

IMPORTANT NOTES:
This Laboratory Report may not be published or used, except in full. It shall not be used in connection with any form of advertising, unless written consent is received from an officer of Saybolt.
Results were based on analysis made at the time samples were received at the Laboratory.
Samples if any, shall be retained for a period of 45 days unless a longer period is requested in writing.
Precision parameters apply in the evaluation of the Test result specified above. Please also refer to ASTM D3244 (except for analysis of RFG) and IP 367 with respect to the utilization of test data to determine conformance with specifications.
This report is issued in accordance with the General Terms and Conditions of Saybolt Panama and the recipient is deemed to have full knowledge thereof.



Everner de Jimenez
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Core Laboratories Panama - Saybolt